

# Glutaric acid, nonyl 3-phenoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C27H36O5/c1-2-3-4-5-6-7-11-20-30-26(28)18-13-19-27(29)31-22-23-14-12-17
<b>InchiKey:</b>	MDUYUZJINNZRGU-UHFFFAOYSA-N
<b>Formula:</b>	C27H36O5
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCCC(=O)OCc1cccc(Oc2ccccc2)c1
<b>Mol. weight [g/mol]:</b>	440.57

## Physical Properties

Property code	Value	Unit	Source
gf	-181.19	kJ/mol	Joback Method
hf	-760.84	kJ/mol	Joback Method
hfus	60.14	kJ/mol	Joback Method
hvap	101.63	kJ/mol	Joback Method
log10ws	-7.57		Crippen Method
logp	6.986		Crippen Method
mcvol	364.520	ml/mol	McGowan Method
pc	1048.69	kPa	Joback Method
rinqol	3390.00		NIST Webbook
tb	1050.50	K	Joback Method
tc	1286.11	K	Joback Method
tf	625.96	K	Joback Method
vc	1.397	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1225.77	J/molxK	1050.50	Joback Method
cpg	1276.39	J/molxK	1246.84	Joback Method
cpg	1269.54	J/molxK	1207.57	Joback Method
cpg	1261.11	J/molxK	1168.31	Joback Method
cpg	1251.04	J/molxK	1129.04	Joback Method
cpg	1239.28	J/molxK	1089.77	Joback Method
cpg	1281.71	J/molxK	1286.11	Joback Method
dvisc	0.0000149	Paxs	1050.50	Joback Method
dvisc	0.0000193	Paxs	979.74	Joback Method

dvisc	0.0000259	Paxs	908.99	Joback Method
dvisc	0.0000366	Paxs	838.23	Joback Method
dvisc	0.0000552	Paxs	767.47	Joback Method
dvisc	0.0000904	Paxs	696.72	Joback Method
dvisc	0.0001654	Paxs	625.96	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U358729&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358729&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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